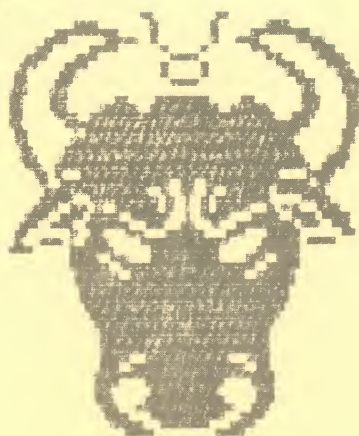


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N E W S L E T T E R

1989 VOLUME 8 ISSUE 2



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Transputer Workstation

By Willie Niepraschk

The information for this article was taken from ST VISION, a German magazine.

At the latest Atari Show in Germany, Atari showed their transputer computer, The Atari Transputer Workstation (ATW). What is a transputer? A transputer is a micro-processor that has a small set of operation instructions. Since there are fewer OP codes to process, these processors tend to run faster than the normal processors. However, it complicates the job of having to write an operating language and a compiler for that kind of chip. The ATW uses the T800 chip from INMOS. This processor is about 13 times as fast as an IBM AT with a math co-processor or about 20 times faster than an Atari ST. Multiple processors can be added in parallel. Eight ATWs, with 13 T800s each, would be as fast as a Cray computer.

The ATW will include a Mega ST. The Mega ST will be used as a smart terminal. It will also include the Helios operating system. This operating system will be somewhat UNIX compatible. It includes X-Windows, a window interface similar to GEM. Each ATW will contain a card that can house up to four T800 processors. Up to 3 of those cards can fit inside the computer. More cards may be added by using an external expansion box.

The ATW contains a super blitter chip. This chip can transfer data at a rate of 128 million pixels per second. It will take 1 meg just for the screen memory, compared to the 32K of the current ST. The ATW has 4 screen modes. The 1280x960 resolution allows for 16 colors from a 4096 palette; the

1024x768 and 640x480 resolutions allow you to use up to 256 colors from a palette of 16 million colors. The lowest resolution 512x480 allows you to use as many colors as you want. Finding a monitor that will display this kind of resolution will be expensive. The Multisync XL from NEC will allow you to use the 1024x768 resolution. The price of this 20" monitor is about \$3000. For the highest resolution one can buy a Hitachi 4615-B8-3. Currently, these ATW computers are shipped only to software developers. These computers contain a 40 Meg hard disk and a 512K Mega ST. The computer should cost somewhere between \$5,000 and \$10,000 dollars.

SCOREBOARD

INTRACORP 1
ATARI STs 0

By Buck Maddrey

Being a 'graphics nut', I hunger for programs that enable the ST to show its stuff in the graphics category. Therefore, most of the software I purchase is of this type, desktop publishing and relatives are by far my favorite.

I have been saving this review for quite some time so as to let the saga unfold as it would in its own sweet time. It is not over yet, but I want to let you in on what is going on. A while back, I saw an advertisement for a program from Intracorp Inc. titled Business Card Maker. The potential for such a program for a General Contractor such as myself, was intriguing. A different business card for each special trade. Sounds good so far, right?...Read on

Business Card Maker (BCM) package includes program disk, instruction booklet, warranty registration card and tractor feed 2-wide business card stock. The owners manual gives overview type of instructions and a note that said "consult your addendum for your specific machine" This was the first clue as to the shortcomings of this program. It is a direct port of another computer's program, and was NOT originally written specifically for the Atari. The second clue was on page one of the introduction, which says "the business cards you create with BCM are intended for recreational and entertainment usages, they are not meant to replace professional typeset cards". Oh well, lets see what it will do, anyway.....

BCM is a GEM program and will run on a 520-1040 color or mono system. The menu bar is a welcomed old friend. Under the card menu, we choose "New" and we are ready to start a new card. There are also Open, Save, Kill, Print and Quit choices which are, for the most part, self explanatory. Most business cards nowadays contain graphic images for enhancement and these are available under the Icons menu. Choices here include Open, Save, Kill, and Edit. Click on Open brings an item selector box to make your choice of any of the 26 icons included. The icons aren't compatible with Printmaster and are of very poor quality. There is, however, an editor with very limited functions and a separate program which enables you to load portions of Degas created screens for use as icons. Also included is a primitive "draw" function which will test your creative skills and patience to the max! So, for the time being, we choose a redi-made icon for our card. Once chosen, the icon appears on the card. By moving the mouse, we can change the position of the icon on the card, but ONLY to one of the corners and no where else!

Finally we are ready to put some text on the card by choosing EnterText under the Font menu. We want big bold letters for our name. So, by clicking on 'size' under the Font menu gives us the point size to select. Available point sizes range from 4 to 32 points. 32 points? why thats not even half an inch! Not gonna be very big. Other text attributes such as bold, italics, underline, outline, light etc, are also available choices. There is a text line at the bottom of the page that shows a sample of the present attributes and size, however the present point size is not indicated. The big letdown here is that BCM only uses the system font. Thats right, I said the system font! It may be possible to load another font into the system prior to booting BCM but it is not mentioned in the manual or addendum. Placing text on the card is done by typing it in a box below the card and then moving it up in place with a ghost lasso. There are no provisions for precise centering or line spacing, so whenever it 'looks good to me', click once and put it down and then on to the next line.

I printed my first card on paper rather than the card stock to see how it looked. It was awful! The large text on the card was'nt even as big as it was on the screen and, well, the small text was so small it was indiscernable. It looked more like a smudge of ink than readable text. It also took a painfully long time for my card to print!

I was very disappointed, especially with the icons, their lack of detail, the number furnished, the inability to place them on the card other than on a corner, and their non standard format. Also not being able to choose a custom font was unforgivable.. At this point, I was ready to return the program for a refund. Next, I phoned the company on their '800' line and voiced my complaints. Their representative informed me that an update was

eminent and that all my findings would be cured with the updated version. They convinced me to return my registration card and wait! So, off it went. About six weeks went by, and a second call to them revealed that it was to be shipped "any day now". Ok, so I'll wait a little longer, two more weeks. During this interim, a company representative phoned me and informed me that I had been given erroneous information. There was no update planned for the ATARI, due to the lack of sales, (I wonder why?) and that only the Apple and IBM versions would be updated.

I had not purchased the program from them and they therefore would not make a refund to me. They did however, offer me a consolation, my choice from their selection of ATARI software (not many). I have since received Button and Badge Maker, the best probable choice of the consolations offered. Button and Badge Maker arrived with a trashed image file and was returned for replacement. It is my intention to review it in the next issue of this newsletter.

It is this writers opinion that many software companies 'port over' programs to the ATARI and others without knowing the capabilities and limitations of the machines. They're looking for the easy money and when their inferior product produces poor sales, they wonder why, and thus decide to drop ANY future support. It would seem to me that software companies would strive to produce products that utilize its host to the very edge of its limitations rather than just be satisfied with something less.

Next time, Button and Badge Maker.....I can hardly wait! Till then the score remains Intracorp ...1, Atari ST...0.
Business Card Maker - \$49.95
Intracorp Inc. Miami, Fla

850 EXPRESS TRICKS

By Bob Fasoldt

Retrieved from Midnight Express BBS,
Richmond, Va.

How to set up 850 EXPRESS to
Autoanswer and Autosave incoming
text or data..

More and more people are buying personal computers and a fair percentage of them are purchasing modems. Electronic mail is not just a thing of the future or just for the wealthy. You can set up your own "electronic mailbox" and receive mail while away from home or sleeping! Let me explain...

I live in Florida and the rest of my family is scattered across the Eastern United States. Many of my family members own personal computers and modems so we send text files to each other instead of letters...and the best news is that it is often less expensive than the mail service. I have been communicating with my family for about two years in this fashion and find it highly reliable and rewarding, plus it is immediate! When I get up in the morning, the first thing I do is turn on the monitor to see if any E-mail has come in. If so, I immediately save it to floppy, even before I read it so nothing can happen to it.

At first, we were using MPP 1000's because their software supported unattended downloading. But soon I grew tired of 300 baud and purchased the Supra 1200AT which also supports unattended downloading. That software however did not support the 512K Ramdisk on my XE, so I began to look for other software for this purpose.

In my opinion, Keith Ledbetter's EXPRESS! is by far the best telecommunications program available. I

began to wonder if this fabulous program could possibly be set up to autosave to buffer or to disk unattended. Nowhere in the 850 Express docs was there any mention of this so you can imagine my excitement and happiness to discover that 850 Express could indeed download and save while no one was around! And...wow, is it easy to do! Here is how:

Boot up your 850 Express! modem program (I use version 3.0, I don't know if earlier versions will support this) and turn on your modem. From the main menu hit ESCAPE (which forces the program to think you're on line) and then press OPTION (which saves anything that comes in to buffer. Set up this way, as soon as a call comes in, the modem will autoanswer and save to buffer any incoming text. To check to see if any file has come in, simply turn on your monitor (I also hit the SPACE bar at this point to prompt the computer out of the attract mode...ie...changing colors, etc.). If text is on the screen, hit START to go the the main menu and save the buffer to floppy. This will clear the buffer so now just view that file from the floppy or read your mail from a word processor.

This has been tested on the Supra 1200AT, Avetex 1200 and Avetex 1200hc and should work the same on most Hayes Compatible modems. To test your modem to see if it will indeed work in this fashion, turn your computer and modem off, turn your disk drive off and your computer back on so only the READY prompt of BASIC is showing. Turn your modem back on as if you were going to use it. Now have someone call your number. (If you live in Pinellas County and have GTE telephone service you can dial your own number, wait for the recording saying that you've dialed your own party line and hang up). If your modem answers the phone without having a program to

tell it to do so, then it will work perfectly as described. If, however, your phone rings and your modem does not respond, you may have to command it to auto answer in this way:

From the main 850 Express menu, choose ASCII (not ATASCII) translation. Now hit ESCAPE and with your modem turned on and ready to receive data, type ATAA. Then hit RETURN. (This in all Hayes Compat. modems commands the modem to autoanswer). Now, hit OPTION to save any incoming info to buffer and you're all set. Remember, in this configuration you are saving to buffer so the size of your buffer depends on the DOS you are using. Here are my experiences:

ATARI DOS 2.0, 2.5 gives you 3328 bytes

Spartados 3.2 gives a buffer of 4608 bytes

Spartados 2.3 gives the largest buffer of 8064 bytes, big enough for most all your letter capturing needs.

For those of you who expect great volumes of incoming text, you'll want to save direct to ramdisk or floppy disk. In order to do this, you must fool the program into thinking it is on line while you set this up. Here is how you do this. Most Hayes Compatible modems have dip switches. On the Avetex and Supra modems you would push switch #7 down. This is the CD (forced carrier detected) switch. On the above mentioned modems, the down position is the "on" position. With the CD switch activated, the Express program thinks it is on line. It seems to do no harm to leave this switch on while waiting for a file to come in. Just be sure you return the switch to the off position before making your next call or you'll get a false "connected" indication. Keep in mind that this switch need not be turned on when auto saving to buffer.

So, to auto save to disk, turn on your CD dip switch, hit ESCAPE from

the main menu to force terminal mode, hit START to re-enter main menu, type "T" to capture to disk. You'll be asked to give it a file name and as soon as you do and hit RETURN, you'll be all set to save to disk. Do not hit OPTION to auto save to disk, autosave is already turned on by choosing the "T" function. Plus, you can always tell if autosave is on just by looking at the border color of your screen.

Things to keep in mind:

1) Whenever you are sending directly to another computer, you **MUST** use HALF DUPLEX. Use full duplex only when communicating with a BBS. If you are setting up to auto receive, it is preferable to be in half duplex but it is **ABSOLUTELY** necessary for the sending modem to be in HALF DUPLEX.

2) It is probably best to use the standard ASCII translation unless you know for sure that only ATARI computers will be sending you files. In that case use ATASCII. No harm will come however, if someone sends a text file to you in ASCII and you are receiving in ATASCII, as long as it is just text. You could not send inverse characters and CONTROL characters unless both sending and receiving terminals were in ATASCII.

3) If you don't have a copy of 850 EXPRESS! version 3.0, ask your Sysop to post it for you. If he doesn't have it, contact me and I'll get it to you.

4) I only know for sure that this method of auto saving works with 850 Express version 3.0. I know it does NOT work with MPP Express version 1.0. I haven't tried it with 1030 EXPRESS although I feel it probably would not work since the 1030 does not come with a ring detector.

5) I truly recommend Spartados 2.3 because of the large buffer it gives and it will read and write to most any other dos.

I sincerely hope I didn't make this sound difficult to set up...it's not. In **MOST** cases you simply turn on your modem, boot the program, Hit ESCAPE and then hit OPTION. And that's all! If you have any questions, comments, or just want to try it out, you can call my autosaving 850 Express at 813-393-0173, between the hours of 1:00am and 8:30am, 300 baud HALF DUPLEX, ATASCII (ASCII will work fine if you don't have ATASCII). I auto receive at 300 baud because not all my family members have 1200 baud yet...but I have a feeling that it won't be long!!! Remember also, when you call another modem set up to autosave, you receive no prompts when the modem answers the phone. As soon as the connection is made, you are "live" with the other computer. You may then type your message or send a pre-typed file from disk. Do Not Send Xmodem to me since I do not set up my program to receive that way.

I sincerely hope you receive some enjoyment out of this information.

Bob Fasoldt

Modem Number:813-393-0173

1:00am-8:30am

ATARI MAINFRAME CONNECTION

By Ron Johnson

The STATUS Library now has two versions of KERMIT, the file transfer protocol and terminal emulator program designed for ATARI 8-bit computer to main frame computer use. I have tried to put them in a very user friendly package so that others may avoid the trials and tribulations that I went through these past few months trying to get it right! I have included on each disk side the documentation as

written by the author of each KERMIT modification. Also, each disk side has the list of commands and responses necessary to transfer files in either direction (TRANSFER.DOC). The DOC files may be printed out using the copy to printer command: 'COPY KERMIT.DOC P:'. The disk and jacket labels are also included on disk in Atariwriter Plus format, as is this file (README.DOC). I have put a printout of the directory and the Startup.Bat in the jacket for each side.

ATARI KERMIT

This version of KERMIT was modified by John Palevich from the original developed at Columbia University. It is ready to run, the handler is built in! It works well with SpartaDOS and the ATARI SX212 modem. Don't use the type ahead KEY ON function and be sure TD is OFF in SpartaDOS (the BAT file turns it off). I have put in a STARTUP.BAT which boots 3.2d SpartaDOS, initializes the ram disk, and runs a little program to let you know what disk is in operation. TDLINE is installed so that all files are time and date stamped. The DATE and TIME commands are included in case you don't have the R-Time 8 Cartridge from ICD. Finally, a message about the copyright on the Dos is given. The time and date line is then turned off as it interferes with KERMIT's file transfer operation! The BAT file then boots up the 40-column ATARI version of KERMIT. This particular disk has been initialized for IBM type main frame computers with even parity, eight bit off and VT52 terminal emulator. I have included phone numbers for both the IBM 3090 main frame and the VAX computers at Old Dominion University, Norfolk Va. If you want to dial the VAX, change the parity to none, eight bit on, and set terminal emulation to VT100. Both the IBM and the VAX require hitting return to connect.

Note: until I figure out the equivalent

ATARI key(s) for the home key on the IBM PC's, one can't use the VT100 terminal emulation very well on the IBM 3090 machine! Help always appreciated.!

KERMIT 65

This version of KERMIT was written by John Dunning and follows the original very closely. I use essentially the same form in communicating with the Old Dominion University main frames and the IBM PS 2/30 in my office. This version needs the RS232.COM handler as found on the SpartaDOS utility files. It also works well with SpartaDOS (KEY OFF, TD OFF) and the SX212 modem. I have also put in a STARTUP.BAT which boots 3.2d SpartaDOS, initializes the ram disk, turns on the R-Time 8 clock (or allows one to set TIME and DATE), and runs a little program to let you know what disk is in operation. Finally, a message about the ICD copyright on SpartaDOS is displayed. The BAT file then turns off the time and date display line, installs the RS232.COM handler, and then boots up the 80-column KERMIT65. This particular disk has been initialized for IBM type main frame computers with even parity, eight bit off, and VT52 terminal emulation. The phone numbers can't be saved to disk in this version. ODU IBM number is 804-683-0013 and the ODU VAX number is 804-683-4878. Again, if you want to dial the VAX change parity to none, eight bit on, and set terminal emulation to VT100 as on ATARI KERMIT. VT100 terminal emulation on the IBM mainframe is still difficult. Until I discover a way to emulate the IBM PC home key on the ATARI 8-bit, use VT52! Remember, after typing c to get into connect mode, one must type 'ATDT683-0013' (IBM) or ATDT683-4878 (VAX) to actually dial the number! Other standard commands to the modem maybe typed prior to

typing the phone number. For instance, `ATS11=50` changes the dialing rate (faster). Hit return to connect to the computer.

Thanks are due to Scott Yelich for the initial push, STATUS Sysop Bob Womack and his understanding wife (thanks Ruth!) for leading me to GENIE, and Bob Stephenson for the handler help.

ICD has given permission to use SpartaDOS for this application only. Please read and heed the message on bootup. Now, a final note at the end where all will see it! To disconnect from the IBM 3090 Gandalf Controller, one must type: `'<esc> <CNTL> ..'`. This is 'escape control-period'. This is for the 40-column ATARI KERMIT. For the KERMIT65 80-column version, disconnect is: `'<esc> <CNTL> bk sp.'` This is 'escape control-back space period'. Was this ever hard to figure out! Enjoy it!

These disks are available from the club librarian or through the Status Newsletter Exchange. Please include \$3.00 for each disk with your order.

PC-DITTO, FUJITZU and FUJI

by Dick Litchfield, STATUS

I've been using pc-ditto for a little over a year now. Usage for the most part has been as an extension of computer work from my regular job. Pc-ditto has performed flawlessly with the programs I use. The only real problem has been getting files back and forth from home to work. Until now, file movement was done via modem. This involved setting up the ST as a remote BBS using FLASH and its remote accessory. Uploading or

downloading the files was not very efficient...but it got the job done! It was my impatience with this method that began my search for a cheap, reliable 5-1/4" drive.

With Computer Shopper in hand I scoured the pages for a great disk drive bargain. What a great selection; half height, full height, 2/3 height, brand name, no-name, used, refurbished, and new. In fact, the selection was so confusing that I almost gave up the idea. I finally purchased a slightly used Fujitsu drive from a friend who was installing a micro floppy in his IBM clone. The price for the Fujitsu had a lot to do with my decision to buy. Now I was ready to use all that cable and configuration information I'd been gathering for months. Installation seemed imminent!

I already own a "homemade" hard disk system in an IBM style external hard drive case. With only a half height hard disk installed, the second slot seemed like a great place to install the Fujitsu. The power supply connection was already there so cabling to the ST was all that was needed. Armed with a pair of side cutters and a cable schematic from Genie, I proceeded to install a standard 34 pin edge connector (Radio Shack p/n 276-1564) on an Atari drive I/O cable. This was really a kludge; an Atari 14 conductor round cable mating with an insulation displacement connector (IDC) designed for flat ribbon cable!

Assembly was tedious, and presented the potential for all kinds of problems if any strain was placed on the wires going into the IDC connector. My thanks to Dave Levy for suggesting the use of hot glue before snapping the shell on the connector. Works like a charm! If you use this method, make sure all your connections are good before applying the hot glue! Well, with the cable all done, I was ready to attack

the drive. Having read just about every article on the ST and the 5-1/4 drive, I knew I needed to remove some type of pull-up resistor on the drive select (DS0) line.

Well, the Fujitsu drive used a inline resistor network (SIP). Four of the resistors were used on the drive select lines (DS0-DS3). The other resistors in the SIP were used in other circuits. After some thought, I decided to clip out the leg of the one resistor on DS0. One little clip and POW...the whole resistor pack crumbled! Now it was off to the nearest REAL electronic store for a new resistor network. As usual, when I need something, its not the ordinary. The Fujitsu network was a 9 pin SIP and all they had were 8 and 10 pin networks. I plunked down the cash for a couple of 8 pin models and some discrete 1/4 watt resistors and off I went.

Back home, I installed the network, minus a leg on the DS1 signal. I then installed a 1K Ohm pull-up on the DS1 line as suggested in some of the info found on Genie. Now I was finally ready to fire up the drive and test it with a diskette I'd brought home from work. With cable and power connections in place, I powered up; waited the usual time for the hard disk to get ready and then threw the switch on the ST. Everything went normal and the desktop appeared. I ran "SIXMS.PR" to set the step rate for the B drive, popped a 5-1/4" diskette into drive B and double clicked on the B drive icon. The drives whirled, the led on the Fujitsu came on and the directory popped up on the screen! Great I thought, it works!

My delight was a little premature. Reading the directory worked, but I soon found that trying to read files, format or just about anything beyond the directory sectors met with dismal failure. After checking all my usual sources of information, I was still lost.

A call to Fujitsu America referred me to a East Coast distributor. A call to the distributor left me with this; a manual cost \$25 and they weren't sure if it was really a service manual. Thanks for nothing!

As luck would have it I ran into Art Millington at the PC Fest and our conversation turned to Pc-ditto. When he told me he was using a Fujitsu, I almost flipped! He had experienced the same problem, but a call to Fujitsu's Hot Line netted him the info he needed to correct the problem. Seems another resistor needed to be removed. Which resistor depends on which revision Copal printed circuit board (PCB) was used on the drive. Art's drive had a PCB with the number "JA2-5166L" and he was told to remove R37. I raced home only to find I had a different revision PCB and there was no R37 on my board. Waiting until Monday to call Fujitsu was not an appealing thought. After checking over the PCB for an hour or so, I decided it had to be either R5 or R13. I opted for R5, removed it and booted up the ST. The bootup was normal. The drive still read the directory, but would it read and write files? I fired up Pc-ditto and gave it the ultimate test. Everything worked great! YAAAAHHOOOOO!

So much for my story. But what's more important is getting this info to other STers who might have need of it. For the record the details are: Fujitsu 5-1/4" Drive Model: M2551A, Capacity: 360KB (formatted) Step rate: 6ms

Clip out leg of resistor network RA1 that goes to edge connector pin 10 (DS1). With Copal board number: JA2-5166L - remove R37
JA2-6166B - remove R5
Cable ST to 5-1/4" Drive
14 pin Atari -Signal -34 pin Edge connector name connector

1	 Read Data	 30
2	 Side 0 Select	 32

3	 Logic Ground	15
4	 Index Pulse	8
5	 Drive 0 Select	10
6	 Drive 1 Select	12
7	 Logic Ground	17
8	 Motor ON	16
9	 Direction in	18
10	 Step	20
11	 Write Data	22
12	 Write Gate	24
13	 Track 00	26
14	 Write Protect	28

Thanks to Mike Miller and Genie for this information.

MEETING DATES

—MARCH—

March 2 - Election Nite
 March 9 - SIG Nite
 March 16 - General Meeting
 March 23 - Executive Meeting

—APRIL—

April 6 - Business Meeting
 April 13 - SIG Nite
 April 20 - General Meeting
 April 27 - Executive Meeting

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BY THE
 STATUS EDITOR

THE PRESIDENTS BIT

As March '89 approaches, so does the end of another year of my Presidency of STATUS. I have enjoyed serving as your President. I must add however, that I could not have done it without the help of the rest of the members of the executive branch and the volunteers who make our jobs a little easier. Thanks to you all !!

Our club has made some very positive steps forward during this past year and will continue to do so during the coming year. The groundwork has already been laid for several projects for the near future. Upgrading our BBS to 2400 baud and the purchase of an new operating system for the 8bit machines are among those on the top of the list. Others include our annual picnic, and upgrading the 520 ST to 1 meg.

As indicated in the previous column, this issue of the newsletter has been compiled on a Mega ST2 using Pagestream. The master copies were printed on an Epson FX85 9 pin dot matrix printer. It was fun but a considerable amount of time has gone into its production. I would appreciate your comments and or suggestions for improvement and most all, your contributions in the form of articles for these pages. Till next time.....

INFO*SHARE

OF THE TIDEWATER AREA

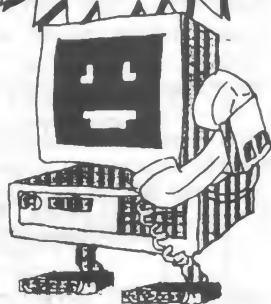
This innovative telecommunications system is now fully operational, ready to serve the residents and businesses of our local communities. Providing a unique online community data base and teleconferencing capability, **INFO*SHARE** makes possible the real time exchange of public information and affords the user timely online retail marketing and ordering. With **INFO*SHARE**, you can now interface the entire computer-enhanced community, regardless of equipment type, with our inexpensive and easy to operate communications system.

- A first for the Tidewater Area, **INFO*SHARE** provides you the convenience of an online, electronic, real-time retail ordering capability, called **THE SHOPPING CENTER**.
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- No other system in the area offers the user a **COMMUNITY DATA BASE**, chock-full of the type of information that makes **INFO*SHARE** your one source for details on the weather, upcoming movies, film reviews, concert schedules, postal rates, schedules of plays, cooking shows, craft bazaars, etc. Additionally, you will find here the demographics, history, and highlights of the area.
- Private **ELECTRONIC MAIL** is available for quick and easy sending and receiving of your notes, letters, and correspondence. And, unlike so many of the other local systems, we guarantee that your mail stays private!
- And, of course, you will also find a user supported, friendly **FILE TRANSFER** capability to upload and download your favorite public domain programs and shareware. Multiple protocols support transfers to and from File Libraries. We service each major computer type: including IBM, Apple, Amiga, Commodore C64/C128, Atari-8 Bit, Atari-ST, and even CP/M. Additionally, as in every other system, **INFO*SHARE** also supports a very active **PUBLIC MESSAGE BASE** that provides space for advertising, making announcements, finding professional help, job postings, business information, and Special Interest Group information.

Does all of this cost? You bet it does, but far less than what you may expect! Typically a month's full-privilege usage costs about the same as an hour of service from one of those major national information services, such as *The Source* or *CompuServe*. A six month subscription runs only \$25.00, and the connect time never exceeds \$7.50 a month.

So fire up the ole modem and "test drive" your **FREE ACCESS TRIAL ACCOUNT**. Now you may enjoy our area's premier interactive telecommunications service - **INFO*SHARE** of the Tidewater Area.

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